

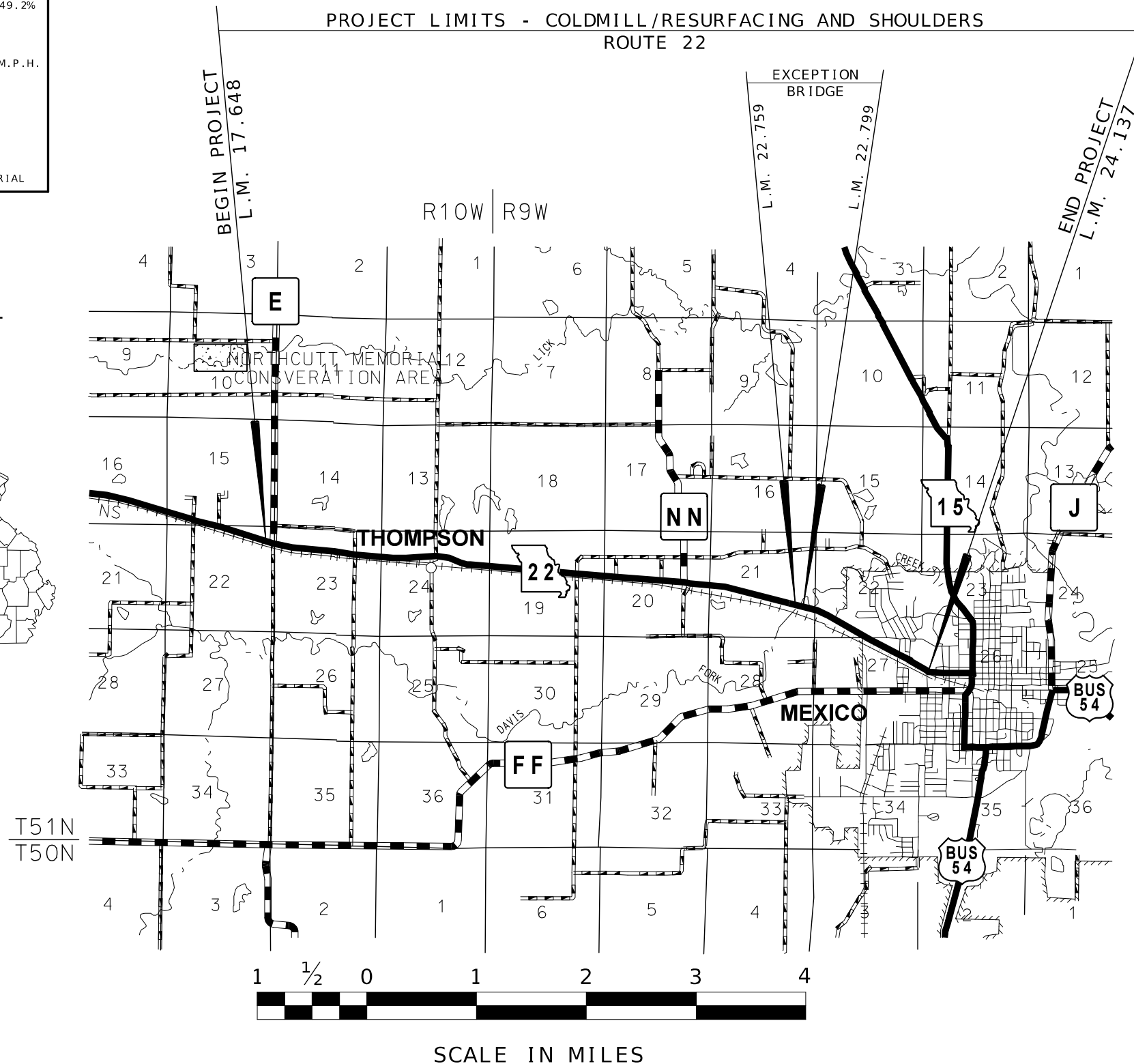
A.A.D.T.-RTE. 22 EAST OF CURTIS ST.
CONSTRUCTION YEAR 2026 = 8,730
DESIGN YEAR 2046 = 9,645
DIRECTIONAL DISTRIBUTION (E/W) = 50.2%/49.8%
PEAK HOUR = 11.03%
PERCENT TRUCKS = 6.48%
V = 60 M.P.H.

A.A.D.T.-RTE. 22 WEST OF CURTIS ST.
CONSTRUCTION YEAR 2026 = 5,706
DESIGN YEAR 2046 = 6,304
DIRECTIONAL DISTRIBUTION (E/W) = 50.8%/49.2%
PEAK HOUR = 7.24%
PERCENT TRUCKS = 7.77%
V = 35/45 M.P.H

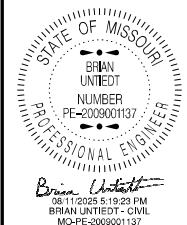
NORTHEAST DISTRICT
AUDRAIN COUNTY



PROJECT LIMITS - COLDMILL/RESURFACING AND SHOULDERS
ROUTE 22



TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (1 SHEET)----	2
QUANTITIES (QU) (4 SHEETS)-----	3
SPECIAL SHEET (SS)-----	4-6
TRAFFIC CONTROL SHEETS (TC)-----	7-14



DATE PREPARED	
8/11/2025	
ROUTE	STATE
22	MO
DISTRICT	SHEET NO.
NE	1
COUNTY	
AUDRAIN	
JOB NO.	
JNE0211	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

BEGINNING OF PROJECT	LOG MILE	17.648
END OF PROJECT	LOG MILE	24.137
APPARENT LENGTH		6.489 MILES
EQUATIONS AND EXCEPTIONS:		
BRIDGE (DAVIS FORK CREEK)		0.040 MILES

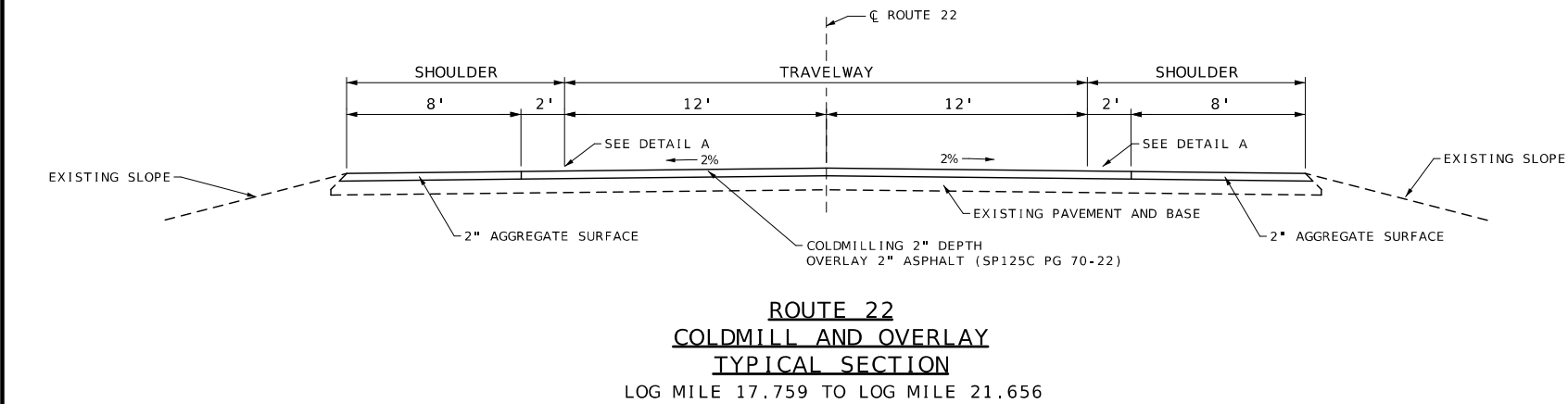
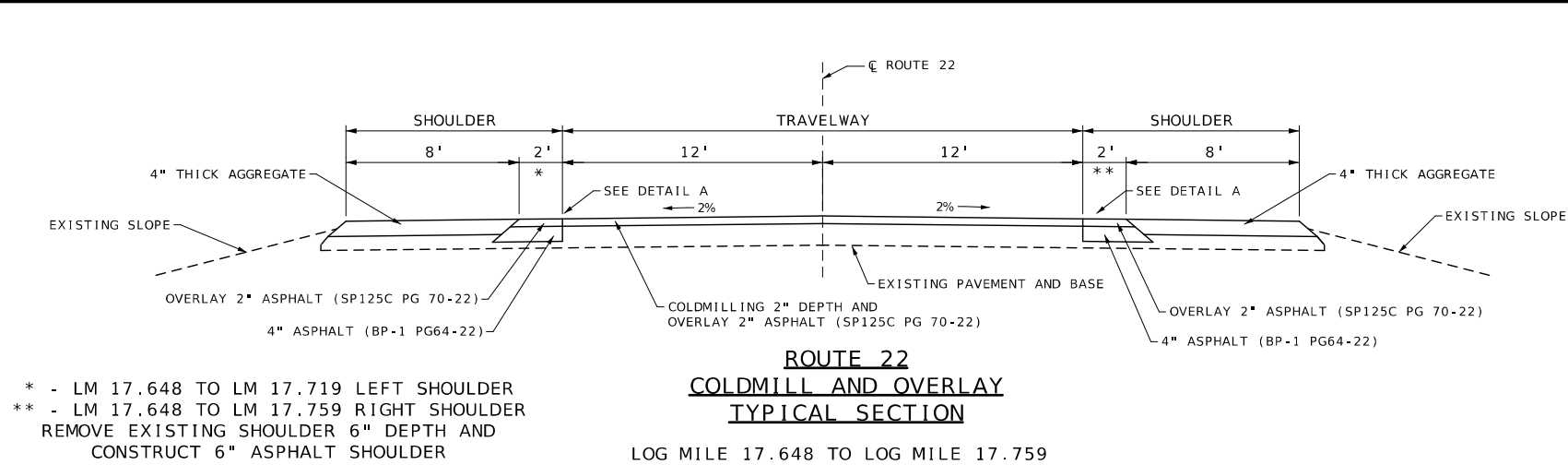
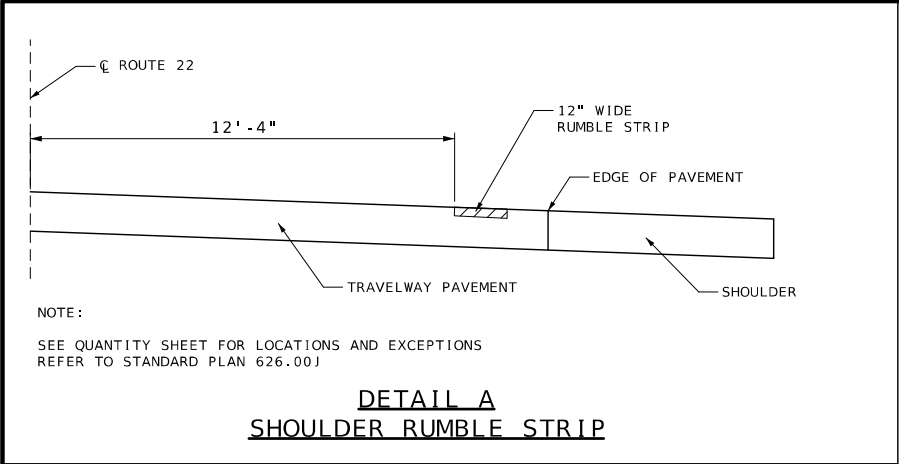
TOTAL CORRECTIONS	0.040 MILES
NET LENGTH OF PROJECT	6.449 MILES
STATE LENGTH	6.449 MILES

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

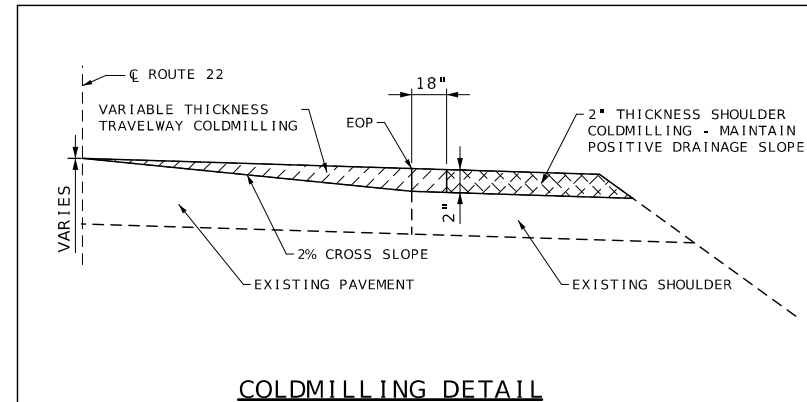
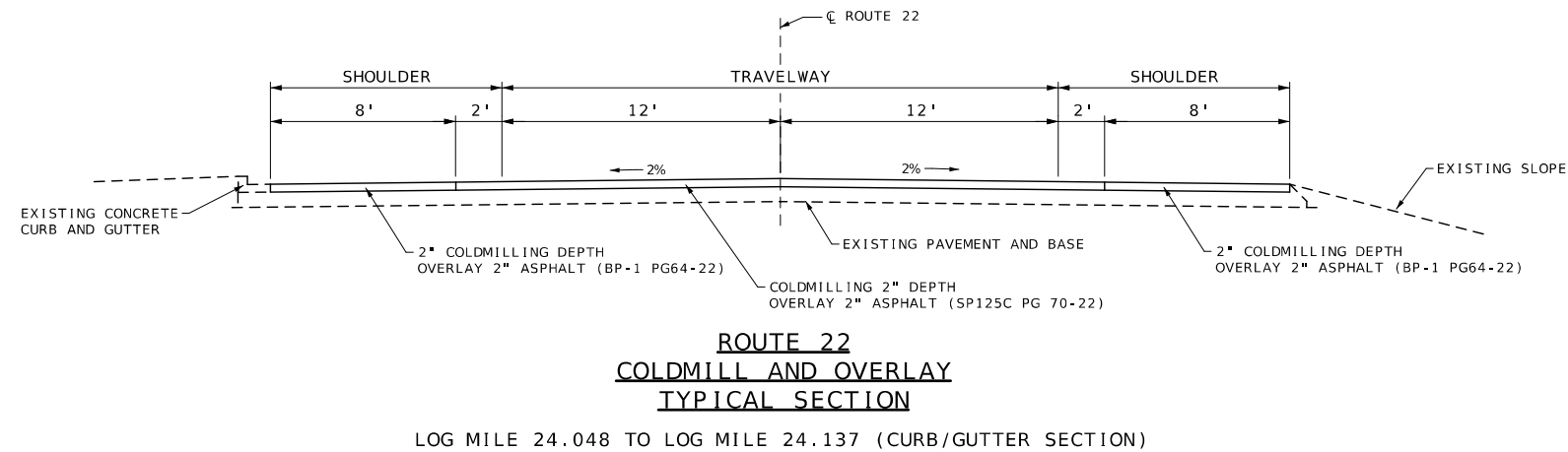
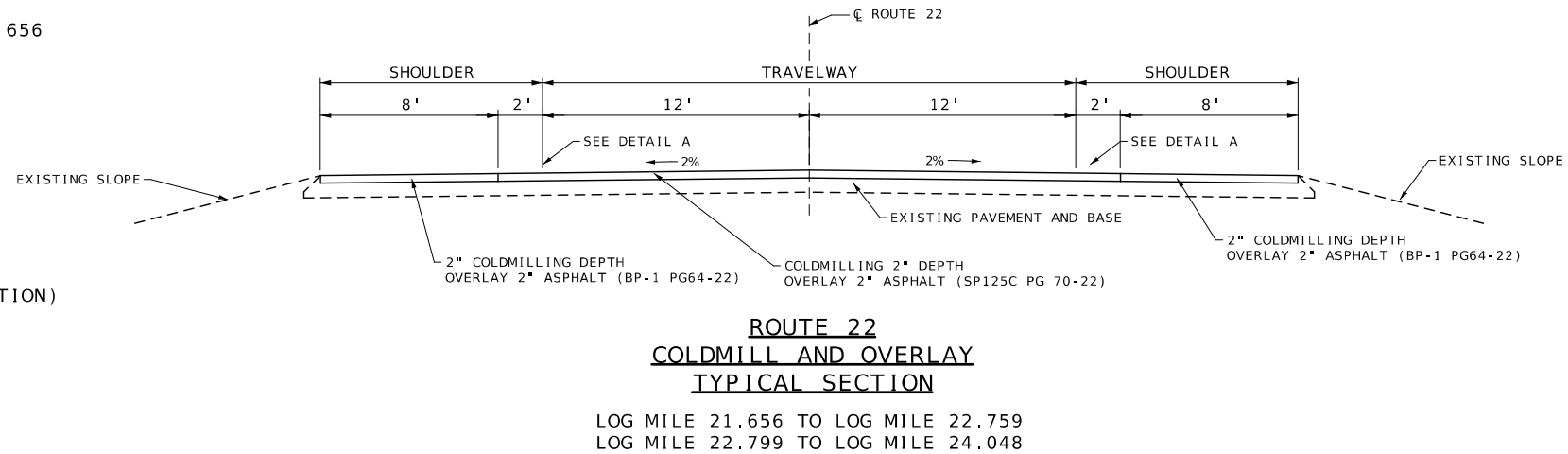
MoDOT

105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TITLESHEET



NOTE: LOG MILE 22.759 TO LOG MILE 22.799 (BRIDGE EXCEPTION)



STATE OF MISSOURI

BRIAN UNITED

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

09/25/2025 10:19:16 AM

BRIAN UNITED - CIVIL

MO-PE-2009001137

DATE PREPARED

9/25/2025

ROUTE

22

STATE

MO

DISTRICT

NE

SHEET NO.

2

COUNTY

AUDRAIN

JOB NO.

JNE0211

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

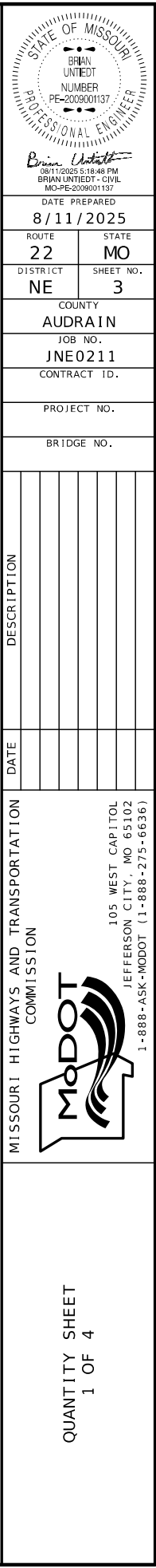
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTION

SHEET 1 OF 1

BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1)							
LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	AREA (SQ YD)	QUANTITY (0.1 TONS)	REMARKS
21.656	22.759	5823.84	2.00	16	10353	1120.4	BEGIN PAVED SHOULDERS TO BRIDGE EXCEPTION - LT AND RT
22.759	22.799	211.20	-	-	-	-	BRIDGE EXCEPTION
22.799	24.137	7064.64	2.00	16	12559	1359.2	BRIDGE EXCEPTION TO END OF PROJECT - LT AND RT
-	-	-	-	-	-	2479.6	SUBTOTAL FOR LT AND RT SHOULDER PAVING
17.648	17.719	374.88	4.00	2.00	83	18.0	LT 2' SHOULDER WIDENING - TWO LIFTS
17.648	17.759	586.08	4.00	2.00	130	28.1	RT 2' SHOULDER WIDENING - TWO LIFTS
-	-	-	-	-	-	46.1	SUBTOTAL FOR LT AND RT SHOULDER WIDENING
17.744	-	VAR.	2.00	VAR.	450	48.7	RTE E ASPHALT APPROACH
21.665	-	VAR.	2.00	VAR.	290	31.4	RTE NN ASPHALT APPROACH
21.707	-	VAR.	2.00	VAR.	190	20.6	CRD 929 ASPHALT APPROACH
22.429	-	VAR.	2.00	VAR.	100	10.8	RON'S BODY SHOP ENTRANCE
23.523	-	VAR.	2.00	VAR.	136	14.7	CURTIS STREET
23.658	-	VAR.	2.00	VAR.	40	4.3	WEST ASSISTED LIVING ENTRANCE
23.718	-	VAR.	2.00	VAR.	55	6.0	EAST ASSISTED LIVING ENTRANCE
VARIOUS	-	VAR.	2.00	VAR.	60	6.5	SEVERAL APPROACHES EXTENDING 2' BEYOND SHOULDER
-	-	-	-	-	-	143.0	SUBTOTAL FOR PAVED APPROACHES
					TOTAL	2,668.7	
NOTE: BP-1 FACTOR USED: 1.948 TONS PER CUBIC YARD							

SHOULDER GRADING						
LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	QUANTITY 100 L.F.	REMARKS
17.649	17.719	369.60	6.00	2.5	4	LEFT SHOULDER - BEGIN PROJECT TO WEST OF RTE E
17.649	17.759	580.80	6.00	2.5	6	RIGHT SHOULDER - BEGIN PROJECT TO EAST OF RTE E
				TOTAL	10.0	



COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)						
LOG MILE	LOG MILE	LENGTH (FT)	THICKNESS (IN)	WIDTH (FT)	QUANTITY (SY)	REMARKS
17.648	17.759	586.08	2.00	24	1563	BEGIN PROJECT TO RTE E - TRAVELWAY
17.759	21.656	20576.16	2.00	28	64015	RTE E TO RTE NN - TRAVELWAY AND 2' SHOULDERS
21.656	22.759	5823.84	2.00	44	28472	RTE NN TO BRIDGE - TRAVELWAY AND 8' SHOULDERS
22.759	22.799	211.20	-	-	-	BRIDGE EXCEPTION
22.799	24.137	7064.64	2.00	44	34538	BRIDGE TO END PROJECT - TRAVELWAY AND 8' SHOULDERS
17.744	-	VAR.	2.00	VAR.	450	RTE E ASPHALT APPROACH
21.665	-	VAR.	2.00	VAR.	290	RTE NN ASPHALT APPROACH
21.707	-	VAR.	2.00	VAR.	190	CRD 929 ASPHALT APPROACH
22.429	-	VAR.	2.00	VAR.	100	RON'S BODY SHOP ENTRANCE
23.523	-	VAR.	2.00	VAR.	136	CURTIS STREET
23.658	-	VAR.	2.00	VAR.	40	WEST ASSISTED LIVING ENTRANCE
23.718	-	VAR.	2.00	VAR.	55	EAST ASSISTED LIVING ENTRANCE
VARIOUS	-	VAR.	2.00	VAR.	60	SEVERAL APPROACHES FLARING BEYOND SHOULDER
TOTAL					129,909	

PAVEMENT MARKINGS					
LOG MILE	LOG MILE	LOCATION	CLASS 1 PAVEMENT MARKING PAINT (18-MIL TYPE P BEADS)		REMARKS
			4" YELLOW (LF)	4" WHITE (LF)	
17.648	24.137	RTE 22	26022.48	-	CENTERLINE MARKINGS
17.648	24.137	RTE 22	-	68523.84	EDGE LINE MARKINGS
VAR.	VAR.	RTE 22		-450	EDGE LINE EXCEPTIONS
SUBTOTAL			26,022.48	68,073.84	
TOTAL			26,023	68,074	
MATCH EXISTING STRIPING. REFER TO STANDARD PLANS FOR FURTHER GUIDANCE.					

PERMANENT AGGREGATE EDGE TREATMENT							
LOG MILE	LOG MILE	LENGTH (FT)	WIDTH (FT)	AREA (SY)	WEDGE THICKNESS (IN)	QUANTITY (TONS)	REMARKS
17.648	21.656	21162.24	8	18810.9	2.00	1091.0	LT SHOULDER EDGE
17.648	21.656	21162.24	8	18810.9	2.00	1091.0	RT SHOULDER EDGE
TOTAL						2182.0	
NOTE: FACTOR USED: 0.058 TONS PER SQUARE YARDS PER INCH OF THICKNESS							

GRAVEL A OR CRUSHED STONE B					
LOG MILE	LOG MILE	NUMBER OF ENTRANCES	AVERAGE TONS PER ENTRANCE	QUANTITY TONS	REMARKS
17.648	24.137	50	2.0	100.0	PRIVATE AND FIELD ENTRANCES
17.648	24.137	10	4.0	40.0	COUNTY ROADS, CITY STREETS, COMMERCIAL ENTRANCES
			TOTAL	140.0	
NOTE: FACTOR USED: 1.4 TONS PER CUBIC YARD OF LOOSE AGGREGATE. LENGTH , WIDTH, AND THICKNESS VARY ON EACH ENTRANCE.					

GUARDRAIL						
BRIDGE LOG MILE	LOCATION	MGS HEIGHT AND BLOCK TRANSITION (EACH)	MGS GUARDRAIL (LF)	TYPE A CRASHWORTHY END TERMINAL (MASH) (EACH)	SHAPING SLOPES CLASS III (STA)	REMARKS
22.762	LT	1	75.0	1	1.0	NW CORNER OF BRIDGE
22.762	RT	1	150.0	1	1.0	SW CORNER OF BRIDGE
22.762	RT	1	75.0	1	1.0	SE CORNER OF BRIDGE
22.762	LT	1	150.0	1	1.0	NE CORNER OF BRIDGE
TOTAL		4.0	450.0	4	4	

REMOVAL OF IMPROVEMENTS				
LOG MILE	LOG MILE	LOCATION	LENGTH (FT)	DESCRIPTION
22.739	22.819	RTE. 22	394	REMOVE EXISTING GUARDRAIL ON ALL FOUR CORNERS DAVIS FRK BRIDGE
			1 LUMP SUM	
SEE SPECIAL SHEET FOR GUARDRAIL REMOVAL.				

ESTIMATE FACTORS
PROVIDED FOR INFORMATION PURPOSES ONLY
ASPHALTIC CONCRETE MIXTURE PG70-22 (SP125C) = 1.927 TON/CY
BITUMINOUS PAVEMENT MIXTURE PG 64-22 (BP-1) = 1.948 TON/CY
TACK COAT (COLDMILLING SURFACE) = 0.10 GAL/SY
GRAVEL, CRUSH STONE AND CHAT = 1.40 TONS / CY OF LOOSE AGG.
PERMANENT AGGREGATE EDGE TREATMENT = 0.058 TONS/SY/INCH

BITUMINOUS SHOULDER RUMBLE STRIP				
LOG MILE	LOG MILE	LOCATION	LENGTH (STA)	REMARKS
17.648	18.990	RT/LT	141.72	BEGIN PROJECT TO THOMPSON CITY LIMITS
18.990	19.430	RT/LT	-	EXCEPTION - THOMPSON CITY LIMITS
19.430	22.740	RT/LT	349.54	THOMPSON CITY LIMITS TO BRIDGE
22.740	22.800	RT/LT	-	EXCEPTION - BRIDGE
22.800	23.420	RT/LT	65.47	BRIDGE TO MEXICO CITY LIMITS
23.420	24.137	RT/LT	-	EXCEPTION - MEXICO CITY LIMITS
VAR.	VAR.	RT OR LT	-119.17	EXCEPTIONS - VARIOUS SIDE APPROACHES
TOTAL			437.6	
SEE STANDARD PLANS 626.00J				

MOBILIZATION
1 LUMP SUM

STATE OF MISSOURI

BRIAN UNTEREDT

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

Brian Unterdert

08/11/2025 5:18:25 PM

BRIAN UNTEREDT - CIVIL

MO-PE-2009001137

DATE PREPARED

8/11/2025

ROUTE

22

STATE

MO

DISTRICT

NE

SHEET NO.

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DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

QUANTITY SHEET

2 OF 4

FULL DEPTH PAVEMENT REPAIR											
SHEET	ENTER LOG MILE	# of LANES ONE TWO THREE	ENTER PANEL LENGTH FT	LANE OR PANEL WIDTH (FT) 11	FURNISHING AND PLACING CONCRETE QUANTITY SQ.YD.	SUBGRADE COMPACTION QUANTITY SQ.YD.	TYPE 1 OR 5 AGGREGATE BASE QUANTITY SQ.YD.	# OF INTERNAL SAW CUTS FOR REPAIRS OVER 6 FEET (EA)	FULL DEPTH SAW CUT QUANTITY L.F.	DOWEL BAR QUANTITY EACH	DESCRIPTION
N/A	VARIOUS	TWO	6	22	14.7	1.5	1.5	-	62	40	LEFT AND RIGHT LANES
				SUBTOTAL	1087.8	111	111	0	4588	2960	ESTIMATED 74 EACH 6 X 22 REPAIRS
N/A	VARIOUS	TWO	10	22	24.4	2.4	2.4	1	96	40	LEFT AND RIGHT LANES
				SUBTOTAL	244	24	24	10	960	400	ESTIMATED 10 EACH 10 X 22 REPAIRS
				TOTAL	1331.8	135	135	-	5548	3360	

NOTE: SUBGRADE COMPACTION AND AGGREGATE BASE ESTIMATED AT 10% OF FURNISHING AND PLACING CONCRETE, PER MODOT EPG 613.3; INTERNAL SAW CUTS ARE INCLUDED IN FULL DEPTH SAW CUT QUANTITY. REMOVAL OF EXISTING PAVEMENT IS NOT PAID FOR AS A REMOVAL OF IMPROVEMENT ITEM. IT IS INCIDENTAL.

THE EXISTING PAVEMENT THICKNESS IS ESTIMATED TO BE 4"-5" OF ASPHALT OVER 7"-9" OF CONCRETE

AUDRAIN 22 PAVEMENT MARKING LOG							
LOG MILE	LOG MILE	TYPE	NO PASSING DIRECTION	LENGTH MILES	CENTERLINE 4" YELLOW LIN. FT.	EDGE LINE 4" WHITE LIN. FT.	REMARKS
17.648	24.137	SW	-	6.489	-	68523.84	EDGE LINES
17.648	18.570	IY	-	0.922	1217.04	-	INTERMITTENT YELLOW CENTERLINE
18.570	18.769	SYIY	EBL	0.199	1313.40	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
18.769	18.789	DSY	BOTH	0.020	211.20	-	DOUBLE SOLID YELLOW CENTERLINE
18.789	18.989	SYIY	WBL	0.200	1320.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
18.989	19.129	IY	-	0.140	184.80	-	INTERMITTENT YELLOW CENTERLINE
19.129	19.319	SYIY	EBL	0.190	1254.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
19.319	19.609	DSY	BOTH	0.290	3062.40	-	DOUBLE SOLID YELLOW CENTERLINE
19.609	19.809	SYIY	WBL	0.200	1320.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
19.809	20.749	IY	-	0.940	1240.80	-	INTERMITTENT YELLOW CENTERLINE
20.749	20.908	SYIY	EBL	0.159	1049.40	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
20.908	20.948	IY	-	0.040	52.80	-	INTERMITTENT YELLOW CENTERLINE
20.948	21.109	SYIY	WBL	0.161	1062.60	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
21.109	21.288	IY	-	0.179	236.28	-	INTERMITTENT YELLOW CENTERLINE
21.288	21.458	SYIY	EBL	0.170	1122.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
21.458	21.628	SYIY	WBL	0.170	1122.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
21.628	22.839	IY	-	1.211	1598.52	-	INTERMITTENT YELLOW CENTERLINE
22.839	23.029	SYIY	EBL	0.190	1254.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
23.029	23.219	DSY	BOTH	0.190	2006.40	-	DOUBLE SOLID YELLOW CENTERLINE
23.219	23.418	SYIY	WBL	0.199	1313.40	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
23.418	23.618	IY	-	0.200	264.00	-	INTERMITTENT YELLOW CENTERLINE
23.618	23.798	SYIY	EBL	0.180	1188.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
23.798	24.038	SYIY	WBL	0.240	1584.00	-	SOLID YELLOW/INTERMITTENT YELLOW CENTERLINE
24.038	24.137	DSY	BOTH	0.099	1045.44	-	DOUBLE SOLID YELLOW CENTERLINE

FOR INFORMATION ONLY, FIELD VERIFY EXISTING PAVEMENT MARKING.



DATE PREPARED
9/25/2025

ROUTE 22	STATE MO
DISTRICT NE	SHEET NO. 3

COUNTY
AUDRAIN

JOB NO.
JNE0211

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

QUANTITY SHEET
3 OF 4

SIGN	SIZE	AREA	QTY	TOTAL AREA	RELOC	TOTAL RELOC	SIGN NO.	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	RELOC	TOTAL RELOC	SIGN NO.	DESCRIPTION	ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025	
																				DESCRIPTION	
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)	
W01-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)	
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)	
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)	
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	2	20.00			1	ROAD WORK NEXT 7 MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)	
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	2	16.00			26	END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)	
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50	4	18.00			53	PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)	
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	24X18	3.00	30	90.00			60	PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL	
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50	12	18.00			58	PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)	
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00						WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)	
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)	
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001		TRUCK MOUNTED ATTENUATOR (TMA)	
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)	
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)	
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)	
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)	
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)	
W01-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	350	CHANNELIZER (TRIM-LINE)	
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)	
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030		TYPE 3 MOVEABLE BARRICADE	
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033		DIRECTION INDICATOR BARRICADE	
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00						SPEED LIMIT XX	6161040		FLASHING ARROW PANEL	
W03-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER	
W03-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT	
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER	
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM	
W04-1aL	48X48	16.00						MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT			CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED	
W04-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT	6161096		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W05-1	48X48	16.00	2	32.00			43	ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W05-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161098A		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W05-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)			CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED	
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)	6161099		WORK ZONE TRAFFIC SIGNAL SYSTEM	
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6162000A		TEMPORARY LONG-TERM RUMBLE STRIPS	
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6162002		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED	
W07-3a	30X24	5.00	2	10.00			43	NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)			TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
W08-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6173600D		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED	
W08-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)			TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED	
W08-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)	6173700B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED	
W08-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED			RELOCATING TEMP. TRAFFIC BARRIER ANCHORED	
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE	6173706		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS	
W08-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE			RELOCATING TEMP. TRAFFIC BARRIER HEIGHT	
W08-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	6174000A		TEMPORARY RAISED PAVEMENT MARKER	
W08-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	6175010A		TEMPORARY TRAFFIC SIGNALS	
W08-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD	6175011B		TEMPORARY TRAFFIC SIGNALS AND LIGHTING	
W08-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						LOCAL TRAFFIC ONLY	6175013			
W08-11	48X48	16.00	8	128.00			36	UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC	6175020A			
W08-12	48X48	16.00	8	128.00			35	NO CENTER LINE	CONST-3X	56X12	4.67						FINE SIGN	6208064A			
W08-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS												
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE				
W08-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE				
W08-17R	48X48	16.00	8	128.00			23	SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE				
W08-17P	30X24	5.00	8	40.00			23	SHOULDER DROP-OFF (PLAQUE)													
W10-1	42RND.	9.62						RAILROAD CROSSING													
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)													
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)													
W012-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)													
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)													
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD													
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD													
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)													
W016-2	30X24	5.00						XXX FEET (PLAQUE)													
W016-3	30X24	5.00						X MILE (PLAQUE)													
W020-1	48X48	16.00	20	320.00			2	ROAD/BRIDGE/RAMP WORK AHEAD													
W020-2	48X48	16.00						DETOUR AHEAD													
W020-3	48X48	16.00						ROAD CLOSED AHEAD													
W020-4	48X48	16.00	20	320.00			7	ONE LANE ROAD AHEAD	616-10.05 CONSTRUCTION SIGNS									TOTAL 1653			
W020-5	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED AHEAD	616-10.10 RELOCATED SIGNS									TOTAL			
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD													
W020-6a	48X48	16.00						RIGHT/CENTER/LEFT LANE CLOSED													
W020-7a	48X48	16.00	20	320.00			8	FLAGGER (SYMBOL)													
W021-2	36X36	9.00						FRESH OIL													
W021-5	48X48	16.00	2	32.00			21	SHOULDER WORK / SHOULDER WORK AHEAD													
W022-1	48X48	16.00						BLASTING ZONE AHEAD													
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE													
W022-3	42X36	10.50						END BLASTING ZONE													
GO22-1	21X15	2.19	4	8.76				WET PAINT (ARROW PIVOTS)													

STATE OF MISSOURI
BRAN
UNITED
NUMBER
PE-2009001137
PROFESSIONAL ENGINEER

DATE PREPARED
8/11/2025
ROUTE
22
STATE
MO
DISTRICT
NE
SHEET NO.
3
COUNTY
AUDRAIN
JOB NO.
JNE0211
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

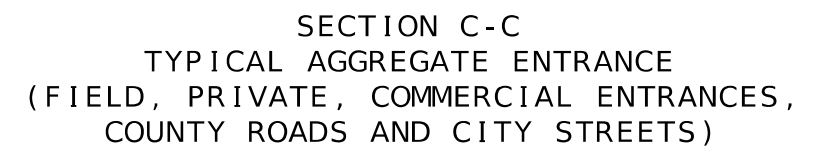
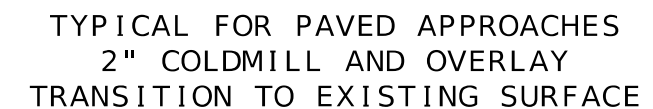
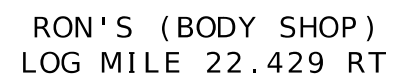
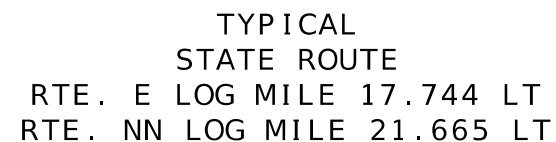
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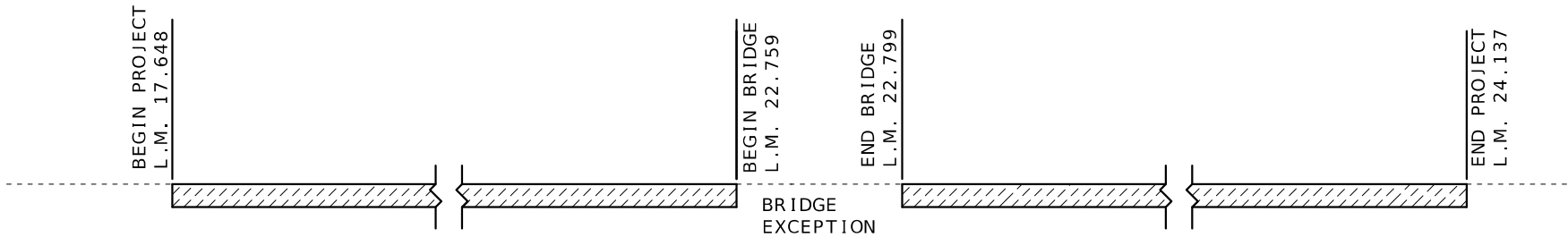
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

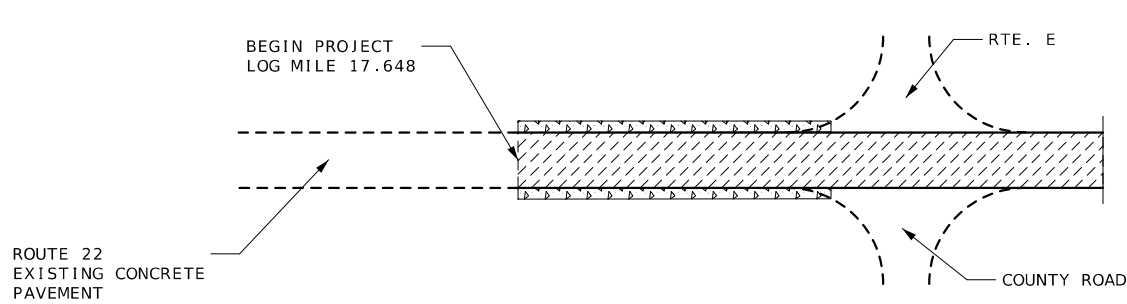
D2BS
QUANTITY SHEET
4 OF 4

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

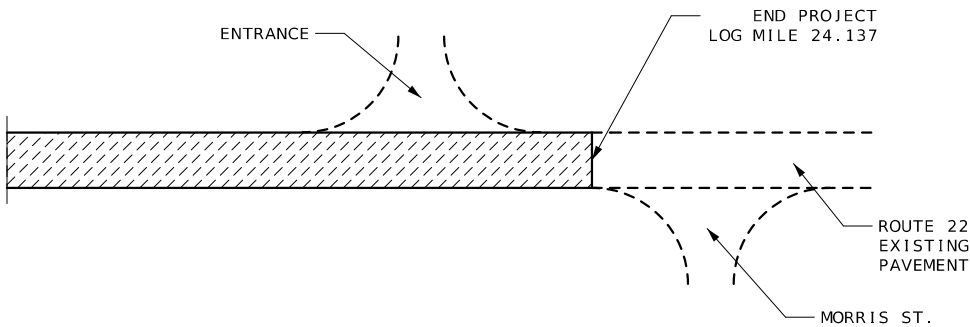




LONGITUDINAL TRAVELWAY DEPTH TRANSITION

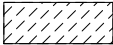


BEGIN PROJECT

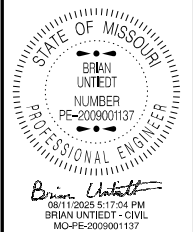


END PROJECT

LEGEND

-  2" COLDMILL AND OVERLAY
-  2' SHOULDER - 2" SP125 OVER 4" BP-1

NOT TO SCALE



DATE PREPARED 8/11/2025	
ROUTE 22	STATE MO
DISTRICT NE	SHEET NO. 5
COUNTY AUDRAIN	
JOB NO. JNE0211	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED
TRAFFIC CONTROL PLAN SHALL BE COVERED, NO DIRECT PAY.

Diagram illustrating the placement of traffic signs and project limits on a two-lane road.

Signs and Markings:

- ROAD WORK NEXT 7 MILES** (G020-1)
- ROAD WORK AHEAD** (W020-1)
- BRIDGE OR RAMP**
- END ROAD WORK** (G020-2)
- WORK ZONE NO PHONE ZONE** (CONST-8)
- Project Limits:** Indicated by a line and a (26) sign.
- Distance:** 1000' from the end of the work zone to the project limits.

Legend:

- BEGINNING OF PROJECT LIMITS:** OR INITIAL WORK ZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.
- END OF PROJECT LIMITS:** END OF WORK ZONE TERMINATION AREA, IF LOCATED BEYOND END OF PROJECT, OR LAST WORKZONE SIGN, IF LOCATED OUTSIDE PROJECT LIMITS.

The diagram illustrates the limits of temporary pavement marking for a two-mile interval. It shows a horizontal road with two lanes in each direction. Key markers include '35 WO8-12' and '36 WO8-11' at specific intervals. Dimensions shown are 150', 1 MILE INTERVAL, and 2 MILE INTERVAL.

W08-17

SHOULDER
DROP-OFF

W08-17P

23

W08-12

35

W08-11

36

(SEE STANDARD PLAN 619.10J)

[illegible]

Sign Spacing, Device Spacing
and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
- EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

○ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

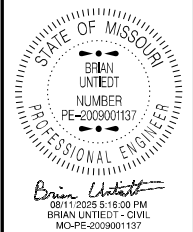
■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL



DATE PREPARED 8/11/2025	
ROUTE 22	STATE MO
DISTRICT NE	SHEET NO. 8
COUNTY AUDRAIN	
JOB NO. JNE0211	
CONTRACT ID.	

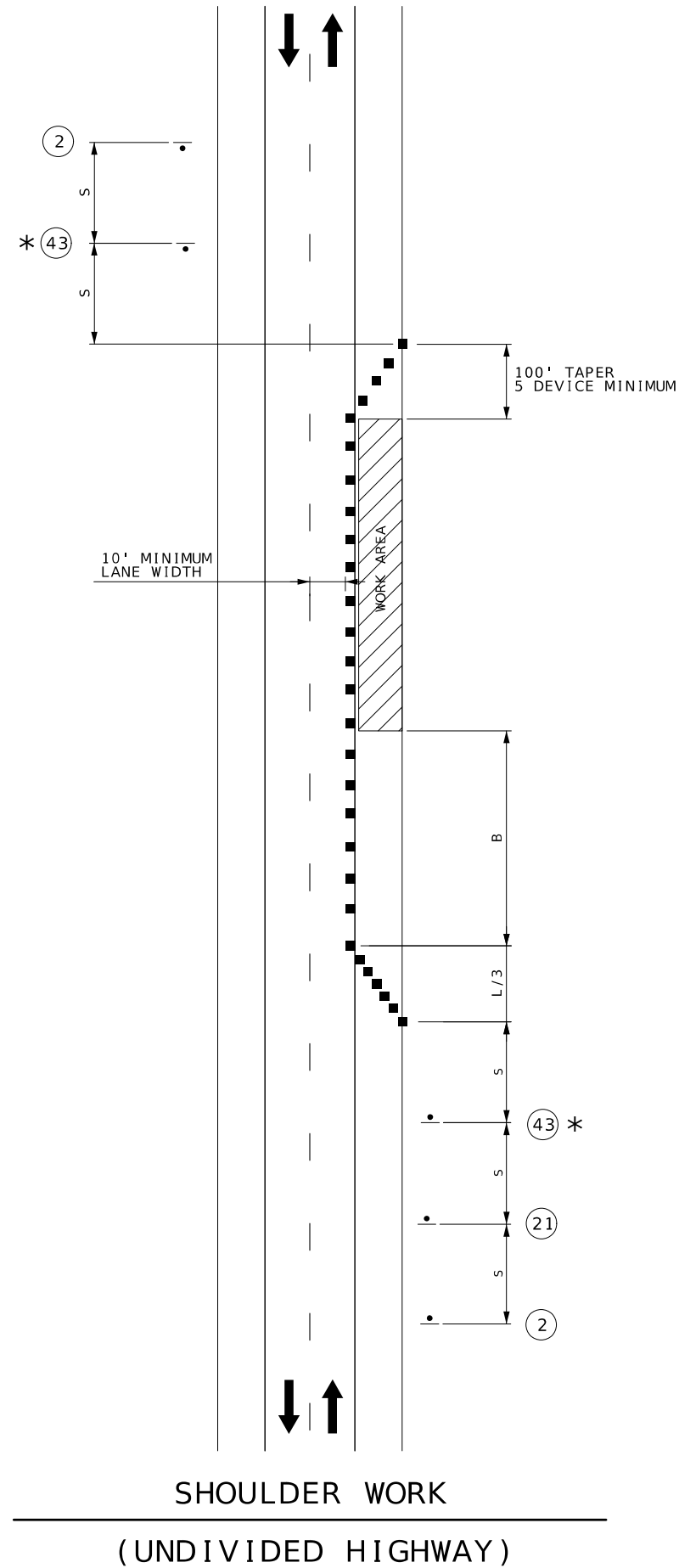
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



BRIDGE
OR
RAMP



BRIDGE
OR
RAMP



(PLAQUE NOT USED IF LESS THAN ONE MILE.)

(43) * OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.

NOT TO SCALE

STATE OF MISSOURI

BRIAN

UNITED

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

Brian Unitedt

08/11/2025 5:15:40 PM

BRIAN UNITEDT - CIVIL

MO-PE-2009001137

DATE PREPARED

8/11/2025

ROUTE

22

STATE

MO

DISTRICT

NE

SHEET NO.

9

COUNTY

AUDRAIN

JOB NO.

JNE0211

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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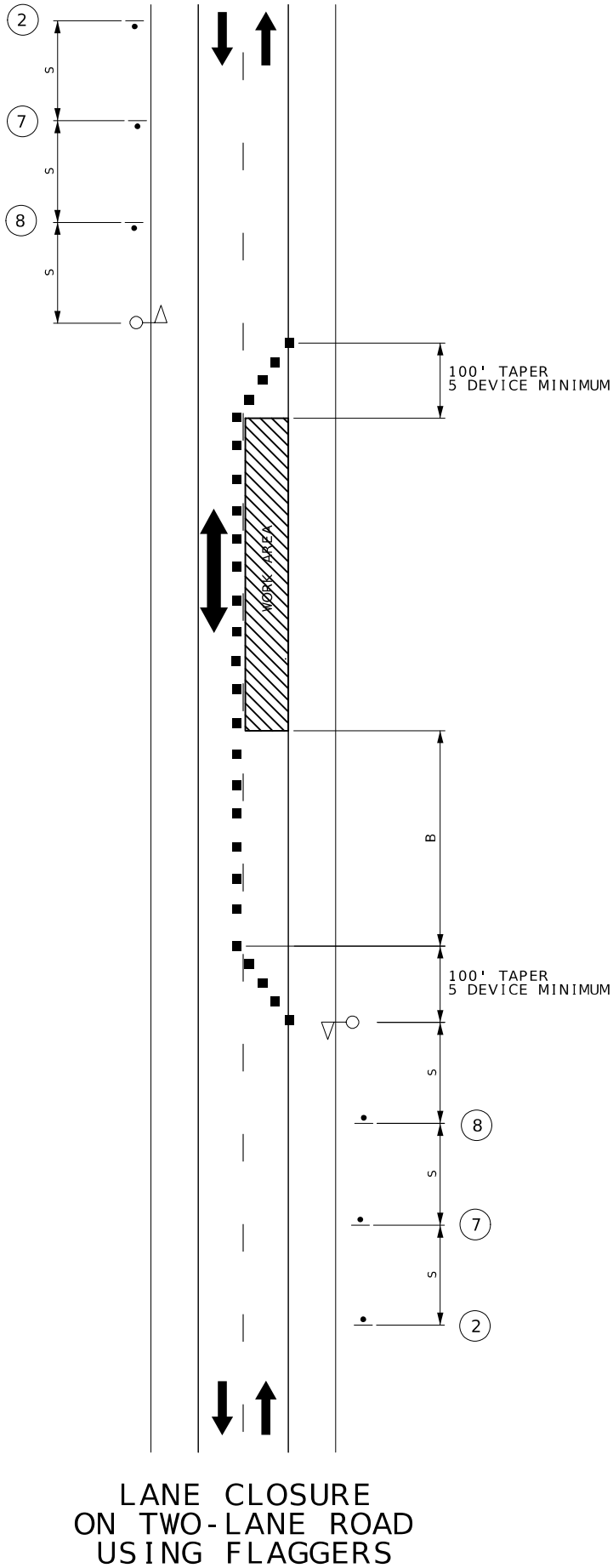
105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

TRAFFIC CONTROL

SHEET 3 OF 8



LANE CLOSURE
ON TWO-LANE ROAD
USING FLAGGERS



WO20 - 1

2



WO20 - 4

7



WO20 - 7a

8

NOT TO SCALE

STATE OF MISSOURI

BRIAN UNTEST

NUMBER
PE-2009001137

PROFESSIONAL ENGINEER

DATE PREPARED
8/11/2025

ROUTE
22

DISTRICT
NE

STATE
MO

SHEET NO.
10

COUNTY
AUDRAIN

JOB NO.
JNE0211

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

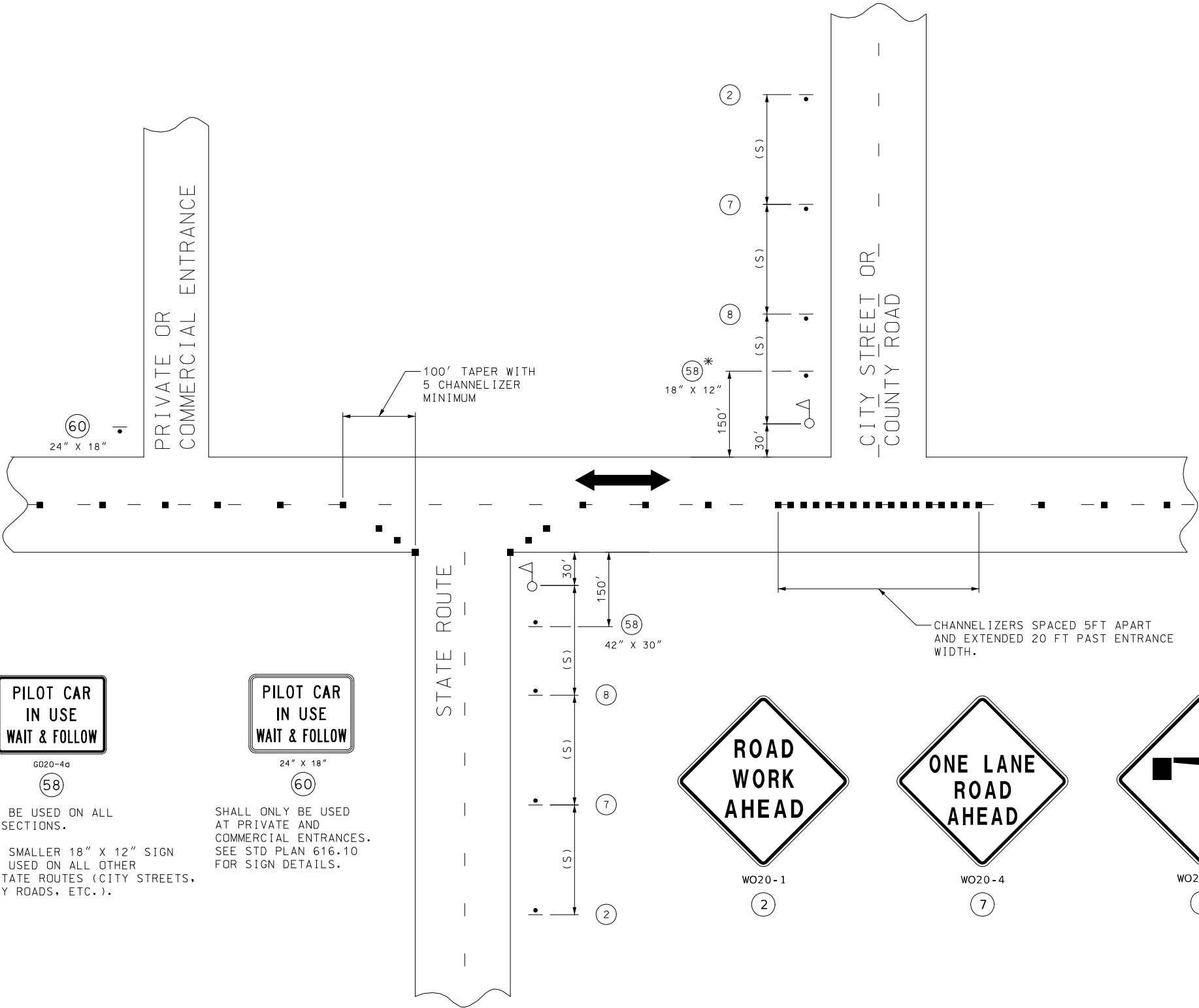
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL
SHEET 4 OF 8

NOT TO SCALE



NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

STATE OF MISSOURI

BRIAN UNTIEDT

NUMBER

PE-2009001137

PROFESSIONAL ENGINEER

08/11/2025 4:45:36 PM

BRIAN UNTIEDT - CIVIL

MO-PE-2009001137

DATE PREPARED

8/11/2025

ROUTE

22

STATE

MO

DISTRICT

NE

SHEET NO.

12

COUNTY

AUDRAIN

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JNE0211

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BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL
SHEET 6 OF 8

